

Stream Restoration on Park Land for Dulles Airport Mitigation

Due to this short deadline by MWAA, staff has attached a draft Board item seeking to implement DPWES identified watershed restoration projects for Dulles Airport mitigation on Park Authority property. Unfortunately, at the time of the Board packet submission many of the details were not known. Multiple meetings will occur between now and the September 27, 2006, meeting, and staff should have more details about the scope and fiscal impact at the Resource Management Committee meeting scheduled for 7 p.m.

A revised Board item will be discussed at the committee meeting with the intent that it would be moved to the full Board for approval also on September 27, 2006.



FAIRFAX COUNTY PARK AUTHORITY

M E M O R A N D U M



REVISED - 9/21/06

TO: Chairman and Members
Park Authority Board

VIA: Michael A. Kane, Director

FROM: Cindy Messinger, Director
Resource Management Division

DATE: September 21, 2006

Agenda

Resource Management Committee
Wednesday, September 27, 2006 – 7 p.m.
Board Room – Herrity Building
Chairman: Frank Vajda

- 1. Project Approval - Stream Restoration on Park Land for Dulles Airport Mitigation - Action****
2. Quarterly Stewardship Update - Information*

*Enclosures

cc: Timothy K. White
Leadership Team

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ACTION -

Project Approval – Stream Restoration on Park Land for Dulles Airport Mitigation (Sully District)

ISSUE:

Approval to enter agreements with the Department of Public Works and Environmental Services (DPWES) and environmental contractors to conduct stream restoration projects on park land (as identified in the Fairfax County watershed management plans) for Dulles Airport mitigation as awarded by the Metropolitan Washington Airports Authority (MWAA).

RECOMMENDATION:

The Park Authority Director recommends approval to enter agreements with DPWES and environmental contractors to conduct stream restoration projects on park land (as identified in the Fairfax County watershed management plans) for Dulles Airport mitigation as awarded by the Metropolitan Washington Airports Authority (MWAA).

BACKGROUND:

MWAA is in the process of expanding Dulles Airport with two planned additional runways and infrastructure to meet growing demand. Because of this expansion, numerous streams and wetlands will be destroyed or disturbed. Federal and state laws require that MWAA compensate for these impacts. The wetland mitigation will be completed through the purchase of credits in wetlands banks in Prince William and Fauquier Counties. Stream mitigation will be secured through a competitive bid process.

In the past year and a half, Park Authority staff have participated in numerous discussions and meetings with representatives of the County Executive's Office, DPWES, MWAA, the Virginia Department of Environmental Quality, the Army Corps of Engineers and others to more closely define the mitigation requirements and to determine what role Fairfax County would play in offsetting the impacts to our local watersheds.

In August MWAA issued the request for proposals for stream mitigation. Proposals must be submitted to them by October 13, 2006. The County Executive's Office is very interested in ensuring that proposals include options to conduct stream mitigation in Fairfax County in order to compensate for some of the impacts affecting our streams

Board Agenda Item
September 27, 2006

from the airport expansion. The Park Authority owns most of the stream valleys in the affected watersheds.

Stream mitigation work would likely include:

- Buffer enhancement – contractors would remove invasive plant species, plant native plants to improve the forest stand, reduce impacts from runoff, increase filtration of floodwaters and improve wildlife habitat.
- Stream restoration – contractors would remove blockages, stabilize banks, install weirs and other structures to control stream flow and improve in-stream habitat.

Permanent conservation easements would be placed on areas that receive buffer enhancement or stream restoration and would encompass a minimum 100' (50' either side of the stream) in width. Such easements would be written to allow public trails, accommodate existing utilities, and allow natural and cultural resource management. It is likely that several miles of stream valley park would receive these improvements and be placed under an easement.

Environmental contractors are prepared to submit proposals to MWAA to conduct stream mitigation work on park land in Fairfax County. In order to submit those proposals, the contractors must have reasonable assurance that if their proposal was accepted by MWAA, the Park Authority would allow the work to be done. If awarded, individual projects would be reviewed and overseen by DPWES and evaluated by park staff based on criteria which address benefits, impacts to the park, park policies, fiscal impact and whether the agency has the resources to support the administrative workload from these projects.

If the Park Authority approves this project, staff will work directly with DPWES, the County Attorney's office and the contractors selected by MWAA to accomplish the following:

- Draft an agreement to govern the conditions of the project.
- Monitor the project for conformance with the agreement.
- Execute a declaration of restrictions that will provide conservation easements on the stream restoration areas (approximately 100 feet in width over the entire project length).

Proposals being submitted by environmental contractors include projects identified by DPWES in the Cub Run Watershed Plan. These projects are seen as critical for protecting and improving water quality in the county and if not funded by the airport mitigation process, would be funded over time through county funding sources. By securing mitigation funds from MWAA, not only will important stream improvements get

Board Agenda Item
September 27, 2006

done earlier, the funds that the citizens of Fairfax County would have had to spend on those projects will be available to do additional stream work.

In addition, options for proposals may include the planned restoration to Turkeycock Run at Green Springs Gardens in the Cameron Run watershed. Although this project does not lie within the same watersheds where the airport impacts will occur, this project is well within the geographic region allowed under federal and state law. It has already been planned and permitted, is identified under the Cameron Run Watershed Plan, and project completion with alternative funding would free up Park Authority stream restoration funds to complete critical stream restoration immediately up and down stream caused by the floods in June 2006.

FISCAL IMPACT:

Resources will be required to review proposals and plans, meet with DPWES and their contractors and the public, draft and review easements and plats and conduct site visits to evaluate and inspect projects. Undertaking these projects will require a significant commitment of staff time by the Park Authority. Availability of funding and staff will be considered as projects are identified. Fiscal impact of this proposal and staffing needs will be determined by the extent of the projects awarded on parkland.

STAFF:

Michael A Kane, Director

Timothy K. White, Deputy Director

Cindy Messinger, Director, Resource Management Division

Charles Bittenbring, Acting Director, Planning and Development Division

Todd Johnson, Director, Park Operations Division

Judy Pedersen, Public Information Officer

Kay Rutledge, Manager, Land Acquisition and Management Branch

Charles Smith, Naturalist III

Board Agenda Item
October 11, 2006

INFORMATION -

Park Authority Stewardship Update

The purpose of the Stewardship Update is to provide information on a quarterly basis on current collections and cultural and natural resource issues, to highlight projects of note, and to provide updates on activities related to the implementation of the Cultural Resource Management Plan (CRMP) and the Natural Resource Management Plan (NRMP).

At the September 27, 2006, Resource Management Committee meeting staff will provide an update on Mosquitoes in Fairfax County, FY 06 Museum Collections report, and archaeological evidence of the Revolutionary War in Fairfax County. Staff will also be available to answer questions on the September 2006 Stewardship Update.

ENCLOSED DOCUMENTS:

Attachment 1: Park Authority Stewardship Update dated September 2006

Attachment 2: Mosquitoes in Fairfax County

STAFF:

Michael A. Kane, Director

Timothy K. White, Chief Operating Officer

Cindy Messinger, Director, Resource Management Division

Lynn Tadlock, Director, Planning and Development Division

Charles Bittenbring, Director, Park Services Division

Todd Johnson, Director, Park Operations Division

Miriam Morrison, Director, Administration Division

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Park Authority Stewardship Update
Collections
September 2006

Item	Background	Status	Lead Agency
POLICY and PLANNING			
Live Animal Collections Policy	While the Park Authority has both wild captive and farm animals under its stewardship, primarily at Resource Management Division nature centers and at Frying Pan Farm Park, it has never had a formal policy addressing them. Adoption of a formal policy by the Park Authority Board will help address any potential concerns the public may have about live animals at Park Authority sites, and also further demonstrate agency professionalism in this area of stewardship.	An initial document detailing guidelines for the care and management of live animal collections, from which policy language will be drawn, has been completed and is being circulated among Resource Management Division staff for review and comment, and is anticipated to come to the Park Authority Board by the end of the year.	Park Authority
Museum Collections Management Plan	A formal plan to improve overall stewardship of the Museum Collections will be developed and written for Park Authority Board adoption.	Museum Collections staff are undertaking the initial organizational steps to begin the planning process.	Park Authority
EDUCATION AND OUTREACH			
Jamestown 2007	Collections Management Section and Cultural Resource Management and Protection Section are producing several exhibits in support of the Jamestown 2007 commemoration.	Susan Clark, Assistant Collections Manager, designed and installed <i>Across the Seas: the India Adventure</i> , an exhibit now on view at Sully Historic Site. Museum Collections staff is working on a new exhibit entitled <i>Marking Our Sites</i> that will travel through the county library system in 2007.	Park Authority
Publications	The Museum Collections and Cultural Resource Sections are in the process of preparing a series of brochures on stewardship aspects of their respective sections for public use.	Museum Collections staff is working on a draft <i>Museum Collections</i> brochure that promotes the Park Authority collections and the agency's stewardship role; providing general information for the public on preserving family treasures and how to donate historic objects to the Park Authority. A book entitled <i>Quilts of Virginia</i> , featuring quilts from the Park Authority Historic Collections, was published in August, 2006.	Park Authority

**Park Authority Stewardship Update
Collections
September 2006**

Item	Background	Status	Lead Agency
Outreach Exhibits and Programs	The Collections Management Section has an ongoing schedule of outreach exhibits and programs designed to reach new audiences.	In July Museum Collections staff presented two sessions for Northern Virginia Community College Lifetime Learning Institute students on <i>Care of Textiles</i> and <i>Caring for Your Family Treasures</i> for audiences totaling 36 people.	Park Authority
Stewardship Education	The Museum Collections Section is conducting an ongoing series of behind-the-scenes VIP Tours of Collections for Park Authority board members, staff and other VIPs to give them a better understanding of the remarkable objects in the collections, stewardship activities conducted by Collections staff, and the policies and professional practices which guide them.	Two VIP Tours were conducted for 7 Park Authority Board Members and staff in July.	Park Authority
PARTNERSHIPS			
George Mason University - Department of History	The Annual Collections Symposium is conducted in partnership with George Mason University, enhancing the scholarship and credibility of the program and providing appropriate lecture space and support at nominal cost to the Park Authority.	Staff began working on the symposium for 2007 and have begun the search for speakers. The topic will be <i>We are all Well: Healthcare and Healing in Early America</i> .	Park Authority
HISTORIC RESOURCES/RESEARCH			
Historic Object Collection	The Park Authority continually improves the quality of the permanent Historic Object Collection through the acquisition and deaccession processes.	The Park Authority accepted and received donations of 37 objects during the update period, largely photographs and documents relating to Mt. Gilead.	Park Authority
Centreville Day	Centreville Day, on September 16th, will feature activities conducted by the Resource Stewardship Section at Mt. Gilead.	Susan Clark, Assistant Collections Manager, is using Mt. Gilead collections materials to create an exhibit for Centreville Day. Oral history collection materials have been designed to capture basic information about Mt. Gilead, and staff will have the capability to scan any photographs and documents visitors bring with them.	Park Authority

**Park Authority Stewardship Update
Collections
September 2006**

Item	Background	Status	Lead Agency
RESOURCE MANAGEMENT			
Conservation Treatment	The Park Authority annually undertakes a series of conservation treatment projects for its Historic Object Collections, including items from the Carlotta Gonzales Lahey Collection. Certified conservators assess selected items and perform the necessary treatment.	Conservation treatment projects for eight objects were completed. These items will be placed on exhibit, published in online web exhibits, or stored appropriately.	Park Authority
Digitization Project	The Resource Management Division is embarking on a long-term project to digitize its Archival Collections and site historic materials so that they will be in a conversion-ready format suitable for new and future technology.	Conversion of all materials in the Archives Collections on tape was completed in June.	Park Authority
COMPLETION OF FY06 REPORT ON THE STATUS OF COLLECTIONS			

Park Authority Stewardship Update

Cultural Resource Management and Protection

September 2006

Item	Background	Status	Lead Agency
POLICY & PLANNING			
Zoning Ordinance Amendment for Archaeology in Historic Overlay Districts	The Cultural Resource Management and Protection Section and Department of Planning Zoning staff have been working to develop an ordinance amendment that would require that archaeology be completed for proposed projects in Historic Overlay Districts at the time of application.	The Board of Supervisors approved that the Zoning Ordinance Amendment could be brought to the Planning Commission, September 27, 2006. It will then go to the Board of Supervisors on October 23, 2006 for approval.	DPZ
EDUCATION AND OUTREACH			
Transportation Research Board presentations	The Cultural Resource Management and Protection Section staff routinely presents technical papers and chairs symposia to cultural resource professionals and avocational archaeologists at workshops and conferences, promoting the Park Authority as a leader in stewardship and reaching audiences not typically served through site programs. As a result of presentations made at the Middle Atlantic Archaeology Conference in March, two Cultural Resource staff members were invited to make presentations in an "Interactive Poster Session" at the Transportation Research Board meetings in Williamsburg, Virginia in July. The summer meeting of the Transportation Research Board addresses only cultural resource topics.	John Rutherford's presentation addressed the use of historic aerial photography in archaeological evaluation. Liz Crowell presented information on the Cultural Resource Management Plan. John has been invited to present his information on the historic aerial photography as part of a GIS symposium to be presented to the entire Transportation Research Board in their annual meeting in Washington, DC in January 2007.	FCPA
Interpretive Signage	Research is underway to prepare 22 interpretive signs to be installed at various locations at Laurel Hill.	The interpretative signs will be installed on the golf course, along the CCT and elsewhere on parkland. Signs to interpret the historical and archaeological background of the property will be installed in 2007.	FCPA
PARTNERSHIPS			
Lexington Archaeology	Virginia State Parks provided \$25,000 grant money to the Park Authority to hire an archaeologist to supervise volunteers for an archaeological survey at Lexington Plantation on Mason Neck.	The project has established an important partnership with the State Parks and Park Authority to survey and test the area of the Mason family house. This project is important both to the Park Authority and to Gunston Hall because it will provide additional information on the Mason family. The project will be completed in the Fall of 2007.	FCPA/Virginia State Parks

Park Authority Stewardship Update

Cultural Resource Management and Protection

September 2006

Item	Background	Status	Lead Agency
Reburial of Union soldiers and exhibit	In 1997, archaeologists from the County and the Smithsonian Institution conducted a rescue excavation of six Civil War burials, under a Virginia Department of Historic Resources permit, as part of the Virginia Antiquities Act. Research conducted by volunteer staff identified these soldiers as likely belonging to the First Massachusetts Volunteer Infantry. Staff and members of the Sons of Union Veterans arranged for the reburial of the soldiers at the Massachusetts National Cemetery in Bourne, Massachusetts.	Mike Johnson and CK Gailey, both of whom had participated in the excavation, drove the soldiers to Massachusetts and participated in the reburial ceremony in June, which included Union reenactors. An exhibit was prepared and installed in the case at the Government Center.	FCPA/Smithsonian/Sons of Union Veterans
CULTURAL RESOURCES/RESEARCH			
Horne Tract Archaeology	The Cultural Resource Management and Protection Section contracted with Louis Berger Group to conduct an archaeological study of the Horne Tract. The archaeological study will guide the placement of recreational facilities in those locations with low cultural resource potential.	The project has identified several prehistoric archaeological sites, one dating to ca. 9500 years ago and archaeological sites related to slave or tenant occupation of the parcel. An archaeological technical report has been produced documenting the findings of the project.	FCPA
Centreville Tan Yard Report	Efforts are underway to prepare an archaeological report on the multi-year archaeological study of the tan yards in Centreville, Virginia.	The report will contain information on the history of Centreville, the history of the tanning industry, the archaeological findings and a description of the artifacts. The report is anticipated to be complete in the summer of 2007.	FCPA
Laurel Hill Gardens	A Cultural Landscape Report is being prepared for the garden at the Laurel Hill house to be used with other cultural resource studies to interpret the park.	The report is being prepared by John Milner Associates, Inc. and identifies garden design and period of significance for the property. Report is scheduled to be completed in the winter of 2006-07.	FCPA
Rice Property	As part of an archaeological study required under development plan review, the Cultural Resource Management and Protection Section has been overseeing an archaeological study in Centreville of a property predicted to contain archaeological remains related to the Civil War use and occupation of the property.	The Cultural Resource Management and Protection Section has staff overseeing the developer's consultant and will have staff in the field monitoring excavation in the future phases of archaeology. A report should be produced in the Spring of 2007.	FCPA

Park Authority Stewardship Update
Cultural Resource Management and Protection
September 2006

Item	Background	Status	Lead Agency
NPS Report to Congress on Revolutionary War and War of 1812 sites. Request for Review and Comment	The National Park Service has recently finalized a study to document and protect nationally significant resources associated with the Revolutionary War and War of 1812. The County Executive sought input on the study from the Cultural Resource Management and Protection section.	The study identified two nationally significant sites in Fairfax County: The Revolutionary War Washington-Rochambeau Route and the War of 1812 Battle of the White House on Fort Belvoir property. Of note, Cultural Resource staff identified Rochambeau's Camp 14 at Meadowood Farm. Currently, an archaeologist is conducting research in county archaeological collections on the Battle of the White House. This study will give us the opportunity to expand our research and interpretation of these important resources.	FCPA
Sully Cultural Landscape Report Treatment Plan	A treatment plan is being prepared to address the cultural landscape at Sully Historic Site.	This treatment plan, being prepared by Rhodeside and Harwell, will address not only the historic features on the property, but will also include information on the new access road, the MWAA Access Road and the proposed visitor center. The report is anticipated in Summer of 2007.	FCPA

Park Authority Stewardship Update

Natural Resource Management and Protection

September 2006

Item	Background	Status	Lead Agency
POLICY & PLANNING Environmental Excellence for Fairfax County: A 20-Year Vision	At its regular meeting on Monday, June 21, 2004 the Fairfax County Board of Supervisors endorsed and adopted the Environmental Excellence 20-year Vision Plan, originally drafted by Chairman Gerald E. Connolly and a group of about two dozen Fairfax County environmentalists (this Environmental Vision is also known as the Environmental Agenda). The plan is organized into six areas, including: growth and land use; air quality and transportation; water quality; solid waste; parks/trails/open space; and environmental stewardship.	The Board of Supervisor's will consider funding invasive, non-native plant removals (\$300,000) and stewardship education (\$150,000) at FY 2006 carryover and will make a decision on September 11, 2006 following a public hearing. Natural Resource Management and Protection Section (NRMP) staff continues to participate in a sub-committee to the Environmental Coordinating Committee (ECC) to develop an Environmental Improvement Program (EIP) to implement the Environmental Agenda. The FY 2008 EIP will be presented to the Board of Supervisors Environmental Committee on September 18, 2006.	ECC
Environmental Quality Advisory Council	The Environmental Quality Advisory Council's (EQAC) purpose is to advise the Board of Supervisors on environmental issues and its principal product is the Annual Report on the Environment (ARE). EQAC members are appointed by the Board of Supervisors.	Staff provided input for EQAC's Annual Report on the Environment (ARE) for 2006 in July. In addition, there was discussion at the July 12, 2006 joint ECC EQAC meeting regarding potential changes to the staff response to the ARE in order to streamline the process and capitalize on the contents of the EIP.	ECC
EDUCATION AND OUTREACH			
Stewardship Education Team	As part of the Cultural Resource Management Plan and the Natural Resource Management Plan and in response to the 2003 All Hands staff meeting that focused on values, an agency wide strategy was developed to emphasize Stewardship Education.	The Stewardship Education Team (SET) continues to meet regularly and most recently a 'Stewardship Basics' pamphlet was produced which will be distributed to each merit and limited term exempt employee in the Park Authority. On June 7, 150 camp counselors boarded the Park Authority's Stewardship to learn about the positive impact they and their campers could have on the agency's natural and historic resources this summer. The ship's crew included Tammy Schwab, Tawny Hammond, Julie Tahan, Susan Tavallai and Mona Enquist-Johnston. They captured the counselors' interest with a power point and hands-on activities that demonstrated the importance and relevance of stewardship to their summer employment.	Park Authority

Park Authority Stewardship Update
Natural Resource Management and Protection
September 2006

Item	Background	Status	Lead Agency
Board of Supervisors Environmental Agenda - Stewardship Education Project	This Environmental Agenda funded project is a campaign to advertise county stewardship of environmental resources.	Stewardship Series brochures continue to be produced as time allows. This summer the focus has been on updating Park Authority wildlife conflict material. A set of highway cards featuring high-profile species like beaver, Canada geese, deer and coyote are coordinated with a more detailed Wildlife Conflict brochure which will be released in October.	Park Authority
Marine Scientist at the Marine and Coastal Resources Research Center, Thailand	Dr. Pinsak Suraswadi, Marine Scientist at the Marine and Coastal Resources Research Center in Thailand requested a visit to Huntley Meadows Park as part of an International Visitor project through the U.S. Department of State.	Gary Roisum and Heather Schinkel met with Dr. Suraswadi and gave a tour of the wetlands and forests of Huntley Meadows Park. Dr. Suraswadi found the tour very refreshing. He, Gary and Heather discussed challenges related to resource management and protection including control of threats (such as development and invasives) and restoration.	Park Authority
American Burying Beetle Research	The Virginia Department of Conservation and Recreation (VA DCR) Natural Heritage Program received a federal grant to conduct field surveys to determine whether the federally endangered American burying beetle has remaining populations in Virginia. VA DCR staff contacted the Park Authority and was issued a permit by NRMPP in coordination with field staff.	The Park Authority coordinated and monitored installation of two specialized live-capture traps by VA DCR staff in late June 2006. One trap was installed at Sully Woodlands and the other at Ellanor C. Lawrence Park. Final results of the trapping are expected in fall 2006.	VA DCR
PARTNERSHIPS			
Board of Supervisors Environmental Agenda - Buffer Restoration	A stream buffer restoration project was funded by the Board of Supervisors with carryover funding earmarked for implementation of the Environmental Agenda. This Department of Public Works (DPWES) led project will focus on restoration of stream buffers on park land.	Fall riparian planting projects are scheduled for Frying Pan Farm Park (Dranesville), Pleasant Hill Park (Sully), Waverly (Hunter Mill), Awbrey Patent (Sully) and Roundtree Park (Mason) and will be completed by November. It is anticipated that enough funding will remain to extend the project through this spring.	DPWES

Park Authority Stewardship Update

Natural Resource Management and Protection

September 2006

Item	Background	Status	Lead Agency
Northern Virginia Native Landscaping Conference	The Audubon Society of Northern Virginia (ASNV) approached NRMP staff in spring 2006 to discuss an upcoming workshop they were planning to promote environmentally friendly practices to landscaping professionals. Park Authority staff formed a partnership with Audubon to host the workshop at Frying Pan Farm Park (FPP) Visitor Center and provide logistical and advertising support for the event.	This workshop will take place on September 28, 2006. The primary target audience are professionals in the private and public sector who either work in landscaping, horticulture or land management, or people in related sectors such as land development, real estate, development plan review and permitting. Information has been disseminated through the County Natural Landscaping Committee and other venues. Staff from several Park Authority divisions and other county agencies will attend. Staff from FPP, Green Spring Gardens and NRMP will participate on the day of the event by serving on a discussion panel, coordinating activities and providing educational displays.	ASNV
Virginia Department of Forestry Collaboration	NRMP staff met with Jim McGlone and Greg Meade of the Virginia Department of Forestry (VA DOF) to discuss forest management and opportunities to partner.	Three sites (Carney Park, Fairfax Villa and Confederate Fortifications) were visited to demonstrate an urban park, a park with a relatively healthy forest and a forest with significant damage from deer browse. Options to address the threat of deer browse to forest sustainability were discussed including deer fencing. In the future we will continue to explore ways to collaborate including a potential deer fencing project.	VA DOF

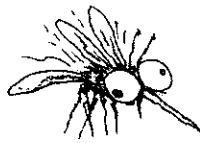
Park Authority Stewardship Update
Natural Resource Management and Protection
September 2006

Item	Background	Status	Lead Agency
WATER RESOURCES Watershed Planning	Watershed Plans will be created for all major Fairfax County watersheds to replace watershed management plans that were drafted in 1976. The Chesapeake 2000 Bay Agreement requires substantial public involvement in creating watershed management strategies.	Two watershed plans are complete, and DPWES hopes to complete four more in FY 2007 (Cameron, Cub and Difficult Runs and Middle Potomac). The watershed planning process is scheduled to begin for Accotink, Pohick and Dogue Creeks, Sugarland and Four Mile Runs, and Pond and Mill Branches. The latter effort will include continued watershed planning for Laurel Hill. Numerous projects are planned to be constructed county wide, some of which are slated for park land. Senior staff from DPWES Stormwater will present an update on watershed planning efforts and their approved FY07 spending plan at the Park Authority Board Resource Management Committee on November 8, 2006.	DPWES
Board of Supervisors Environmental Agenda - Low Impact Development Design Project	This Environmental Agenda funded project is to design and install Low Impact Development (LID) stormwater management features on park land to provide stormwater benefits and incorporate an educational component to demonstrate different LID techniques to the public. The 2004 Park Bond contains funding for stream restoration projects on park land.	Final permitting details are being worked out on the Cub Run and Mt. Vernon ReCenter sites. Cub Run LID is scheduled for Construction in early September 2006. Plants for the project were purchased in August 2006 and are being stored by the Forestry and Landscaping Crew at Flat Branch Maintenance Facility. - Following the torrential rain storms in late June, the Board approved Turkeycock project was placed on hold due to extensive damage up and down stream of the planned restoration. Staff are evaluating the situation and will return to the Resource Management Committee with a revised scope in fall 2006. - The Huntley Meadows wetland restoration was approved by the Board in July and design will begin in fall 2006.	Park Authority
2004 Bond Stream Stabilization Plans			Park Authority

Park Authority Stewardship Update
Natural Resource Management and Protection
September 2006

Item	Background	Status	Lead Agency
RESOURCE MANAGEMENT			
Board of Supervisors Environmental Agenda - Invasive Management Area Program	This Environmental Agenda funded project is to remove invasive species from parkland. This program fits neatly with the goals of the Natural Resource Management Plan to educate the public about natural resource issues and to take management action with regards to invasive species.	We have logged over 1000 volunteer hours in support of the Invasive Management Area (IMA) Program. IMA officially ends October 31, 2006. An evaluation of the program will be completed this winter and a presentation will be made to the Resource Management Committee.	Park Authority
Goose Egg Adding	Overpopulation of geese in Fairfax County presents problems for public health and natural resource (primarily water quality) impacts as well as substantial economic impact due to large quantities of feces deposited in public use areas. The Park Authority is participating in a county-wide goose egg adding in coordination with the County Wildlife Biologist. Activities include adding in up to a dozen sites by trained paid and volunteer staff. The Park Authority holds its own federal permit for this purpose that is renewed annually.	Five Park Authority operated sites and Pleasant Valley Golf Course added approximately 1,000 eggs in over 200 nests in April and May 2006 under authority of the Park Authority's federally issued "Depredation" permit. In addition, Park Authority staff added one other nest on county land under a separate County permit. Rule changes by the US Fish & Wildlife Service published in the Federal Register in August 2006 will make it easier for landowners to add eggs and reduce goose numbers beginning in 2007. Staff are awaiting new guidelines for these rule changes.	Park Authority County Wildlife Biologist
Mosquito Management and Surveillance	In response to the invasion and expansion of the West Nile Virus, the Park Authority has participated in a coordinated approach to mosquitoes since 2000. Mosquitoes and West Nile Virus affect public health, equine health and natural areas across jurisdictions and across departments. The focus of the activities have been on education, monitoring and the elimination of man-made breeding sites (e.g. bird baths, gutters, toys and litter). Mosquito control, when implemented, is for disease vector reduction, not in response to nuisance situations	Since 2002, Fairfax County has had an interdepartmental team working to monitor West Nile Virus carrying mosquitoes, reduce the habitat for disease-causing mosquitoes and educate the public about mosquitoes. The Park Authority's role in the county-wide subcommittee has always been, by necessity, quite active. The Health Department monitors 50-90 traps every week, many of which are on park land. We also coordinate when mosquito management is necessary. Staff will present an educational activity on mosquitoes at the September 27, 2006 Resource Management Committee.	Health Department

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Mosquitoes in Fairfax County

Attachment 2

DRAFT

Biology Basics

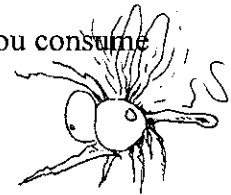
There are about 3000 different kinds of mosquitoes and a worldwide population of 100 trillion. In Fairfax County we have about 40 different kinds of mosquitoes.

Female mosquitoes lay most of their eggs on standing water. Stagnant ponds, ditches and wetlands are preferred, but even a few tablespoons of water in a flower pot or old tire is sufficient to support reproduction.

Female mosquitoes bite - they require a blood meal in order to produce offspring. When she bites, the mosquito injects a bit of saliva that slows coagulation so blood flows freely. Separate mouth parts are used to make the bite vs. to siphon blood. An allergic reaction to mosquito saliva causes the welt and itching sensation.

Scientists are unsure why, but you're more likely to be a target for mosquitoes if you consume bananas.

Mosquito biting activity increase by 500 times when there is a full moon.



The northern house mosquito is the main vector of West Nile virus (although over 43 other species have been found to have WNV in their bloodstream) and often breeds in rain barrels, storm sewer catch basins, faulty cesspools, ditches, artificial containers, gutters, polluted ground pools, bird baths, discarded tires, clogged, grass choked ditches, in effluent from sewage treatment plants and other similarly, somewhat polluted habitats.

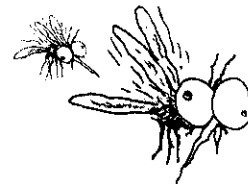
West Nile virus is transmitted from birds to humans via the bite of an infected mosquito (that is, you can't get WNV from a bird or another person).

Most species of mosquitoes hibernate during the winter.

In comparison to the longest-flying salt marsh mosquitoes that can fly 40 miles, the most famous Fairfax County mosquito, the Asian tiger mosquito, doesn't travel far, usually only about 500 ft from its breeding habitat.

Mosquitoes require standing water that lasts two to four days to breed.

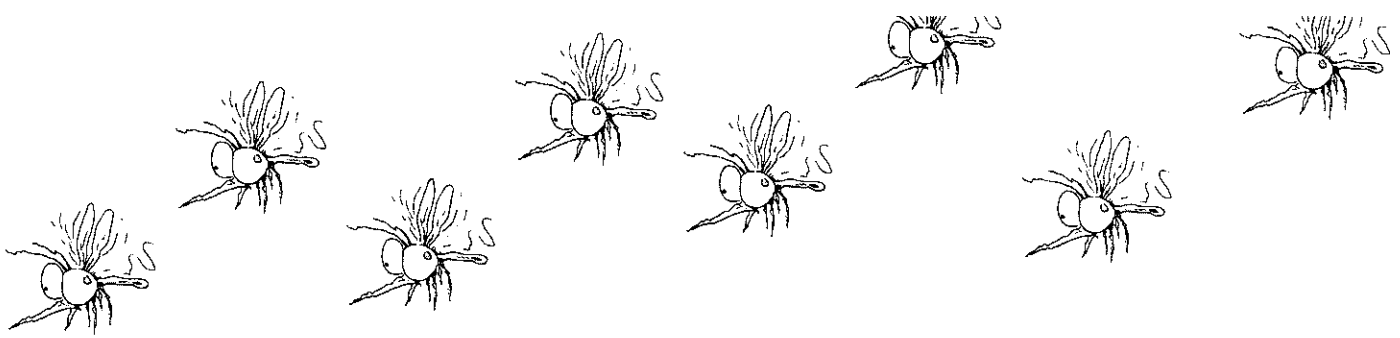
Most people bitten by mosquitoes with West Nile virus do not get sick.



Disease & Management

West Nile virus was first detected in humans in Fairfax County in 2002, in which there were 13 cases with one fatality. There were three human cases with no fatalities in 2003; a single case, which was fatal, in 2004; and no cases in 2005. In 2006, as of September 12, there has been only one human case reported in Fairfax County.

The Health Department manages the Fairfax County mosquito surveillance program in order to identify, treat and monitor mosquito breeding sites, and to monitor adult vector mosquito populations and their West Nile virus infection rates.



The mosquito surveillance program operates throughout the County; about 200 traps are set on a weekly basis to collect adult mosquitoes. A subset of those mosquitoes is tested for the presence of West Nile virus.

The Health Department associates mosquito trap data with risk factors in order to assess and predict human risk and refine "triggers" for mosquito control activities. Based on these data points, as well as WNV activity in birds, other animals or humans, adult mosquito trapping is expanded or enhanced in areas where WNV is detected. This helps determine zones of potential local transmission and the extent of viral activity thus guiding interventions.

The Health Department treats catch basins and other habitats with larvicide, an insecticide used to kill mosquito larvae, in programmed cycles aimed at reducing mosquito populations that breed in this environment. The first treatment cycle typically begins in May each year, with the number and magnitude of each cycle dependent on climatic factors and mosquito surveillance results.

The Health Department in collaboration with the Department of Public Works and Environmental Services has taken responsibility to ensure larviciding of storm water retention ponds countywide where deemed necessary.

The Fairfax County Park Authority examines each nuisance mosquito complaint on a case by case basis. Typically, the Park Authority completes source reduction (trash removal), but does not apply larvicides or adulticides as a practice. If the Health Department determines treatment is necessary (e.g. in response to West Nile virus) they assume the lead responsibility to coordinate treatment.

What can you do?

To reduce exposure to mosquitoes:

- Wear long, loose and light-colored clothing.
- Avoid going outside at dawn and at dusk; mosquitoes are most active at these times.
- Make sure window and door screens in your home are functional and in place.
- Use insect repellent products registered with the Environmental Protection Agency such as products containing DEET, Picaridin, or Oil of Lemon Eucalyptus. Follow instructions when using insect repellents.

To prevent mosquito breeding:

- Turn over, drain, or remove containers in your yard where water collects, such as old tires, potted plant trays, buckets and toys.
- Do not leave garbage can lids upside down or allow water to collect in garbage cans.
- Eliminate standing water on tarps or flat roofs, and in boats.
- Clean out birdbaths and wading pools once a week.
- Clean roof gutters and downspout screens regularly.

For more information:

Fairfax County Health Department's website: www.fairfaxcounty.gov/fightthebite